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3. Cut a path up Mt. Willey, along the north bank of the brook about 400 metres (1-4 mile) south of Moore's Brook flag station on the P. & O. R. R.

4. Cut a path around Frankenstein Cliffs, following up Bemis Brook to Arethusa Falls, crossing to the falls above Ripley's on Cow Brook, and descending along the latter brook.

5. Cut a path from the Ponds, near Greeley's, Waterville, through to Sawyer's River R. R., Upper Bartlett, with a branch up Mt. Carrigain.

6. Cut a path to the top of Moosilauke from Woodstock, following up the Moosilauke River.

7. Measure and mark, metrically, the new Moat Mt. path.

8. Construct a camp in King's Ravine, as near the Head Wall, as water may always be found.

9. Construct a camp on the Mt. Carrigain branch path, as far up as water may always be found.

10. Mark meridian lines pointing to true north, in White Mt. region about 13° E. of magnetic north.

It is expected that a party, with headquarters at the Mt. Crawford House, will be at work on Mt. Willey and around Frankenstein Cliffs, between July 4th and 10th, and Appalachians interested are invited to assist.

The Councillor may be addressed at Weymouth, Mass. W. G. Nowell, Councillor of Improvements.

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## SCIENTIFIC SERIALS.

BULLETIN OF HAYDEN'S U. S. GEOLOGICAL AND GEOGRAPHICAL SURVEY OF THE TERRITORIES.—No. 3, Vol. IV. July 29th, 1878. Field-notes on Birds observed in Dakota and Montana along the Forty-ninth Parallel, during the seasons of 1873 and 1874, by Dr. Elliott Coues, U. S. A., late Surgeon and Naturalist U. S. Northern Boundary Commission. Notes on a Collection of Fishes from the Rio Grande, at Brownsville, Texas, continued, by D. S. Jordan, M.D. Preliminary Studies on the North American Pyralidæ, 1, by A. R. Grote. Palæontological Papers, No. 6. Descriptions of New Species of Invertebrate Fossils from the Laramie Group, by C. A. White, M.D. Palæontological Papers, No. 7. On the Distribution of Molluscan Species in the Laramie Group, by C. A. White, M.D. On some dark Shale recently discovered below the Devonian Limestones at Independence, Iowa, with a notice of its Fossils and description of new species, by S. Calvin, Professor of Geology, State University of Iowa. On the Mineralogy of Nevada, by W. J. Hoffman, M.D.

THE QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE.—July. Mr. C. O. Whitman, of Boston, contributes an elaborate and lengthy essay on the embryology of Clepsine, a leech-like worm. The article is one of the most important contributions in this difficult field of research. It treats of the origin and growth of the egg, its impregnation and mode of deposition, of the changes preliminary to and during cleavage, of the gastrula and "neurula" stages, comprising the growth of the germ-layer and the concomitant invagination of the pharyngeal clefts, of the origin of the nerve-chain, segment cells, segmental organs and segments, of the origin and development of the alimentary canal and circulatory apparatus. The author believes that the "neurula" of the chick, or of the fish, belongs to the same type as that of Clepsine, and the concluding remarks on the identity of type, in this phase, of worms and vertebrates, are of a good deal of interest. The researches were made in Prof. Leuckart's laboratory.

BULLETIN OF THE AMERICAN GEOGRAPHICAL SOCIETY.—No. 2. 1878. Japan: Geographical and Social, by Rev. W. E. Griffis. The So-called Celtic Monuments of Brittany, France, by W. Wright Hawkes, LL.D. Recent Journey of Exploration across the Continent of Australia; its Deserts, Native Races and Natural History, by Mr. Jess. Young, F.R.G.S., F.R.A.S.

THE GEOGRAPHICAL MAGAZINE.—July. The Vilayet of the Islands of the White Sea (with a map showing the administrative divisions). The Country of the White Horde of Kipchak, by H. H. Howorth. Origin of the Ordnance Trigonometrical Survey, by S. Mossman. The Marine Survey of India, 1876–77.

THE AMERICAN JOURNAL OF SCIENCE AND ARTS.—August. Forest Geography and Archæology, by A. Gray. Structure and Origin of Mountains, by J. LeConte. Occurrence of a solid hydrocarbon in the eruptive rocks of New Jersey, by I. C. Russell.

POPULAR SCIENCE REVIEW.—July. Volvox globator, by A. W. Bennett. The Extinct British Wolf, by J. E. Hasting. On the Radiolaria as an Order of the Protozoa, by G. C. Wallich. How were the Eocenes of England deposited? by J. S. Gardner.

THE GEOLOGICAL MAGAZINE.—July. On the possibility of changes in the latitudes of places on the earth's surface, by O. Fisher.